Exhibit A Comparison of the Amino Acid Sequences of SEQ ID NO:24 and NP_660187

	searches a prote on 3.3t05 March cite:		sequence	data bank			
	Pearson & D.J. L	ipman PNA	S (1988) 8	5:2444-244	8		
>seqi	astaGAABJayWj: 1 124 tmp/fastaHAACJay		v				
	ing /tmp/fastaHA						
134	4 residues in	1 seque	nces				
join: Scan The be:	(3.34 January 20 40, opt: 28, ga time: 0.034 st scores are:	p-pen: -1	2/ -2, wid	th: 16	op	ot	p: 2
NP_6601	187 ACCESSION:NP	_660187 N	ID: gi 217	29876 re	(1344) 483	8	
initn	60187 ACCESSION: : 7156 init1: 48	38 opt: 4	838				
Smith-1	Waterman score:	7274; 85	.311% iden	tity in 13	82 aa over	lap (1-1219	9:1-
	10	20	30	40	50	60	
seqid2	MTRKRTYWVPNSSGG						
NP 660	::::::::::::::::::::::::::::::::::::::	:::::::: LVNRGIDIG	:::::::: DDMVSGLIYK	TYTLODGPWS	QQERNPEAPO	RAAVPP	
111_000	10	20	30	$\tilde{4}0$	50	60	
	70	80	90	100	110	120	
seqid2	WGKYDAALRTMIPFR	PKPRFPAPQ	PLDNAGLFSY	LTVSWLTPLM	IIQSLRSRLDE	NTIPPL	
ND 660	::::::::::::::::::::::::::::::::::::::	:::::::	TINDAGI.FSV	::::::::: M.19T.TW2VT.T	::::::::: TOSLRSRLDE	NTIPPL	
NP_666	70	80	90	100	110	120	
			150	1.00	170	100	
~~~; d0	130 SVHDASDKNVQRLHR	140	150	160 MI.REORTRI.I	170 FDALLGTOFO	180 TASVLG	
seqiaz	:::::::::::::::::::	LWEEEVSKK	::::::::::::	::::::::::	::::::::::	::::::	
NP_660	SVHDASDKNVQRLHR	LWEEEVSRR	GIEKASVLLV	MLRFQRTRLI	FDALLGICFO	:IASVLG	
_	130	140	150	160	170	180	
	190	200	210	220	230	240	
seaid2	PILIIPKILEYSEEQ						
	:::::::::::::::::::::::::::::::::::::::	::::::::	:::::::::	::::::::	:::::::::	.::::	
NP_660	PILIIPKILEYSEEQ						
	190	200	210	220	230	240	
	250	260	270	280	290	300	
seqid2	FAFEKLIQFKSVIHI	TSGEAISFF	TGDVNYLFEC	VCYGPLVLIT	CASLVICSIS	SYFIIG	
	:::::::::::::::::::::::::::::::::::::::				::::::::::::::::::::::::::::::::::::::	:::::: *CVFTTC	
NP_660	FAFEKLIQFKSVIHI 250	TSGEALSFF. 260	TGDVNYLFEG	280	290	300	
	250	200	2.0				
	310	320	330	340	350 350	360	
		11 12:1 / 12:10///1313 10///7	ひと ハロロロロとばし	/ S I I I I I I I I I I I I I I I I I I	CAZICEL LIKELIKI	I T I WUD. D P	

seqid2 YTAFIAILCYLLVFPLEVFMTRMAVKAQHHTSEVSDQRIRVTSEVLTCIKLIKMYTWEKP

NP_660	::::::::::::::::::::::::::::::::::::::	::::::: AVFMTRMAVK 320	::::::: AQHHTSEVSD 330	:::::::: QRIRVTSEVL 340	:::::::: TCIKLIKMYT\ 350	EEKP 360
. 10	370	380	390	400	410	420
seqid2	FAKIIEDLRRKERKLL	EKCGLVQSLT	SITLFILPTV			4r 5M
NP 660	FAKIIEDLRRKERKLL	EKCGLVOSLT	SITLFIIPTV	ATAVWVLIHT	SLKLKLTASM	AFSM
111_000	370	380	390	400	410	420
	430	440	450	460	470	480
seqid2	LASLNLLRLSVFFVPI					
	::::::::::::::::::::::::::::::::::::::	::::::::::::::::::::::::::::::::::::::	:::::::::		::::::::::::::::::::::::::::::::::::::	:::: ::::
NP_660	LASLNLLRLSVFFVPI	440	450	460	470	480
	430	440	450	400	470	100
	490	500	510	520	530	540
segid2	LSWQQTCPGIVNGALE	LERNGHASEG	MTRPRDALGP	EEEGNSLGPE	LHKINLVVSK	GMML
	:::::::::::::::::::::::::::::::::::::::	:::::::::	:::::::::	::::::::	::::::::	::::
NP_660	LSWQQTCPGIVNGALE					
	490	500	510	520	530	540
		5.60	F70	580	590	600
: 40	550 GVCGNTGSGKSSLLSA	560	570			
seqiaz	GVCGNTGSGKSSLLSA	TLEEMULLEG	PAGAGGSTHI	·······	········	::::
ND 660	GVCGNTGSGKSSLLSA	TLEEMHLLEG	SVGVOGSLAY	VPOOAWIVSG	NIRENILMGG	AYDK
NF_000	550	560	570	580	590	600
	610	620	630	640	650	660
seqid2	ARYLQVLHCCSLNRDL	ELLPFGDMTE	IGERGLNLSG	GQKQRISLAR	AVYSDRQIYL:	LDDP
	:::::::::::::::::::::::::::::::::::::::	:::::::::	::::::::::	::::::::::	:::::::::	::::
NP_660	ARYLQVLHCCSLNRDL				AVYSDRQIYL. 650	660 4005
	610	620	630	640	650	000
	670	680	690	700	710	720
seaid2	LSAVDAHVGKHIFEEC					SELM
_	:::::::::::::::::::::::::::::::::::::::	:::::::::	:::::::::	::::::::	:::::::	::::
NP_660	LSAVDAHVGKHIFEEC	IKKTLRGKTV	VLVTHQLQYL	EFCGQIILLE	NGKICENGTH	SELM
	670	680	690	700	710	720
. 10	730 QKKGKYAQLIQKMHKE	13 m.C				
seq1d2	QKKGKYAQLIQKMHKE					
ND 660	QKKGKYAQLIQKMHKE		KTAEKPKVES	OALATSLEES	LNGNAVPEHO:	LTQE
141_000	730	740	750	760	770	780
segid2						
					T 015 T DO000	DAT C C
	EEMEEGSLSWRVYHHY	YIQAAGGYMVS	CIIFFFVVLI	VFLTIFSFW	LSYWLEQGSG	INSS
			CIIFFFVVLI		LSYWLEQGSG 830	rnss 840
	EEMEEGSLSWRVYHHY	YIQAAGGYMVS	CIIFFFVVLI	VFLTIFSFW	LSYWLEQGSG 830	rnss 840
NP_660	EEMEEGSLSWRVYHHY 790	TIQAAGGYMVS 800	CIIFFFVVLI 810	VFLTIFSFWW 820	830	rnss 840
NP_660	EEMEEGSLSWRVYHHY	TIQAAGGYMVS 800	CIIFFFVVLI 810	VFLTIFSFWW 820	830	rnss 840
NP_660	EEMEEGSLSWRVYHHY 790	YIQAAGGYMVS 800	CIIFFFVVLI 810	VFLTIFSFWW 820	830	840
NP_660	EEMEEGSLSWRVYHHY 790	YIQAAGGYMVS 800	CIIFFFVVLI 810 	VFLTIFSFWW 820 	830	840
NP_660	EEMEEGSLSWRVYHHY 790  RESNGTMADLGNIADN 850	IQAAGGYMVS 800  IPQLSFYQLVY 860	CIIFFFVVLI 810  GLNALLLICV 870	VFLTIFSFWW 820  GVCSSGIFTK 880	830  WTRKASTALH 890	840  NKLF
NP_660 seqid2 NP_660	EEMEEGSLSWRVYHHY 790  RESNGTMADLGNIADN 850  740  750	YIQAAGGYMVS 800  IPQLSFYQLVY 860 760	CIIFFFVVLI 810  GLNALLLICV 870	VFLTIFSFWW 820  GVCSSGIFTW 880 780	830  WTRKASTALH 890 790	840  NKLF 900
NP_660 seqid2 NP_660	EEMEEGSLSWRVYHHY 790  RESNGTMADLGNIADN 850	IQAAGGYMVS 800  IPQLSFYQLVY 860  760  IGRLLNCFAGI	CIIFFFVVLI 810  GLNALLLICV 870  770  DLEQLDQLLPI	VFLTIFSFWW 820  GVCSSGIFTK 880 780 FSEQFLVLSI	830 VTRKASTALH 890 790 MVIAVLLIVS	840  NKLF 900 VLSP

NP_660	NKVFRCPMSFFDTIPIGRLLNCFAGDLEQLDQLLPIFSEQFLVLSLMVIAVLLIVSVLSP 910 920 930 940 950 960
	800 810 820 830 840 850 YILLMGAIIMVICFIYYMMFKKAIGVFKRLENYSRSPLFSHILNSLQGLSSIHVYGKTED ::::::::::::::::::::::::::::::::::::
_	860 870 880 890 900 910  FISQFKRLTDAQNNYLLLFLSSTRWMALRLEIMTNLVTLAVALFVAFGISSTPYSFKVMA ::::::::::::::::::::::::::::::::::::
_	920 930 940 950 960 970 VNIVLQLASSFQATARIGLETEAQFTAVERILQYMKMCVSEAPLHMEGTSCPQGWPQHGE ::::::::::::::::::::::::::::::::::::
	980 990 1000 1010 1020 1030  IIFQDYHMKYRDNTPTVLHGINLTIRGHEVVGIVGRTGSGKSSLGMALFRLVEPMAGRIL ::::::::::::::::::::::::::::::::::::
seqid2	1040 1050 1060 1070 1080 1090 IDGVDICSIGLEDLRSKLSVIPQDPVLLSGTIRFNLDPFDRHTDQQIWDALERTFLTKAI ::::::::::::::::::::::::::::::::::::
seqid2	1100 1110 1120 1130 1140 1150 SKFPKKLHTDVVENGGNFSVGERQLLCIARAVLRNSKIILIDEATASIDMETDTLIQRTI ::::::::::::::::::::::::::::::::::::
seqid2	1160 1170 1180 1190 1200 1210  REAFQGCTVLVIAHRVTTVLNCDHILVMGNGKVVEFDRPEVLRKKPGSLFAALMATATSS :::::::::::::::::::::::::::::::::

seqid2 LR :: NP_660 LR